

NIH HANDHELD ²⁰¹¹ TECHNOLOGY EXPO

A showcase of handheld technology in use at NIH

Sponsored by the NIH Handheld Users Group (HUG) in cooperation with CIT and the NIH Library



“Building Mobile-Friendly Web Sites Using Microsoft SharePoint” Developer Track

Wednesday, April 13, 2011 | 10:00AM - 11:25AM EST

About EPC Group



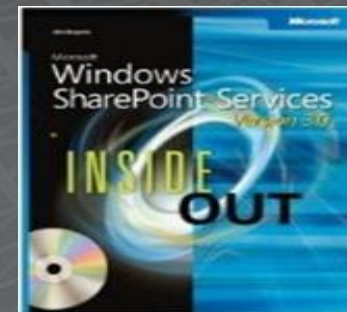
SharePoint 2007 and SharePoint 2010 Offerings Include:

- Enterprise Content Management Systems based on Microsoft Office SharePoint Server 2007 (MOSS)
- SharePoint 2010 (SharePoint Server 2010 \ SharePoint Foundation 2010)
- Intranet and Internet facing implementations (WSS or MOSS)
- Health Check and Assessment Initiatives – Preparing for SharePoint 2010
- SharePoint Support Contracts for Organizations throughout the U.S.
- Custom Application, Web Part, Security Models and Workflow Development
- Migration initiatives for SharePoint 2007 to 2010
- KPI, Dashboard, and Reporting Solutions
- Tailored SharePoint Training (either onsite or remote)
- SharePoint Roadmap development: 6, 12, 18, and 24 months
- Enterprise Metadata Design \ Retention Schedule Development
- Webpartgallery.com



Presenter: Errin O'Connor

- Founder & CEO of EPC Group.net
 - One of the nation's leading SharePoint implementation and custom .NET development firms
- Author with the EPC Group team: *Microsoft SharePoint Foundation 2010 – Inside Out*
- Author of *Windows SharePoint Services 3.0 Inside & Out* by Microsoft Press
- Has completed 130+ SharePoint Implementations in the Past 10 years
- Has worked on some of the largest SharePoint deployments to date (200,000+ Users)



SharePoint 2010 Communities Platform

- Team Sites
- Tag Profile Pages
- Office Client Backstage, Co-authoring
- **Mobile Access**
- SharePoint Workspace Offline access
- Outlook Synch
- External Access



SHARE

- Social Bookmarks
- Ask Me About, Colleague & Expertise Suggestions
- People & Expertise Search
- Organization Browser
- Social & Taxonomy Tags



FIND



CREATE



- Blogs & Wikis
- Enterprise Wikis
- Rich Media Support
- Team Sites
- Ratings
- Office Web Apps
- Note Board



NETWORK

- My Network, My Profile
- Activity Feeds
- Status Updates
- Photos, Contact Card, Presence everywhere
- Notifications & Alerts

Why Mobile & SharePoint 2010?

- **What is Your SharePoint User Base?**
 - Customers are changing – demographics, technology use, etc.
 - Users are coming to expect 24/7 connectivity
- **How Best Can the Institute Adapt to Growing Mobile Adoption**
 - Reviewing the Institutes current applications as well as the future application development process
 - Faster Connections and expectations of mobility from your user base
- **Mobile Adoption Continues to Move Forward | Update SharePoint Roadmap**
 - Smartphones are continuing to improve and they provide the technologies that bridge the gap to traditional applications and sites

Keys to SharePoint Mobile Success

What is Your SharePoint User Base?

- What devices are your customers using?

Understand mobile Information Architecture

- Utilize the available device features and screen real estate to drive focus towards mobile content

What is the Institutes Mobile Strategy

- These factors will help you understand when to develop native or web-focused mobile applications and how to best serve your customers

Understanding and Evolving

- Understanding the Institutes users and how technology is evolving to get on the front side of the mobile application curve

SharePoint 2010 Mobile

SharePoint 2010 Supports the Delivery of Information to Web Browser Enabled Mobile Phones:

- Lightweight interface and navigation
- Document libraries, lists, wikis, blogs, web part pages and LOB data
- Office Viewer
- Word, Excel and PowerPoint documents
- Mobile My Site
- Mobile Search Experience
 - People, contact information, content and finding data in custom databases
- SMS Alerts for changes to content
- Features are customizable and, all the information is in SharePoint's SDK.

Available SharePoint 2010 Web Services

SharePoint provides a full suite of web services for native apps

- Document Workspace Services (WebSvcDWS)
- Forms Services (WebSvcForms)
- Authentication Services (WebSvcAuthentication)
- Business Data Connectivity Services – BDC (WebSvcBdcAdminService)
- Search Services (WebSvcspsearch)

SharePoint 2010 Supported Browsers

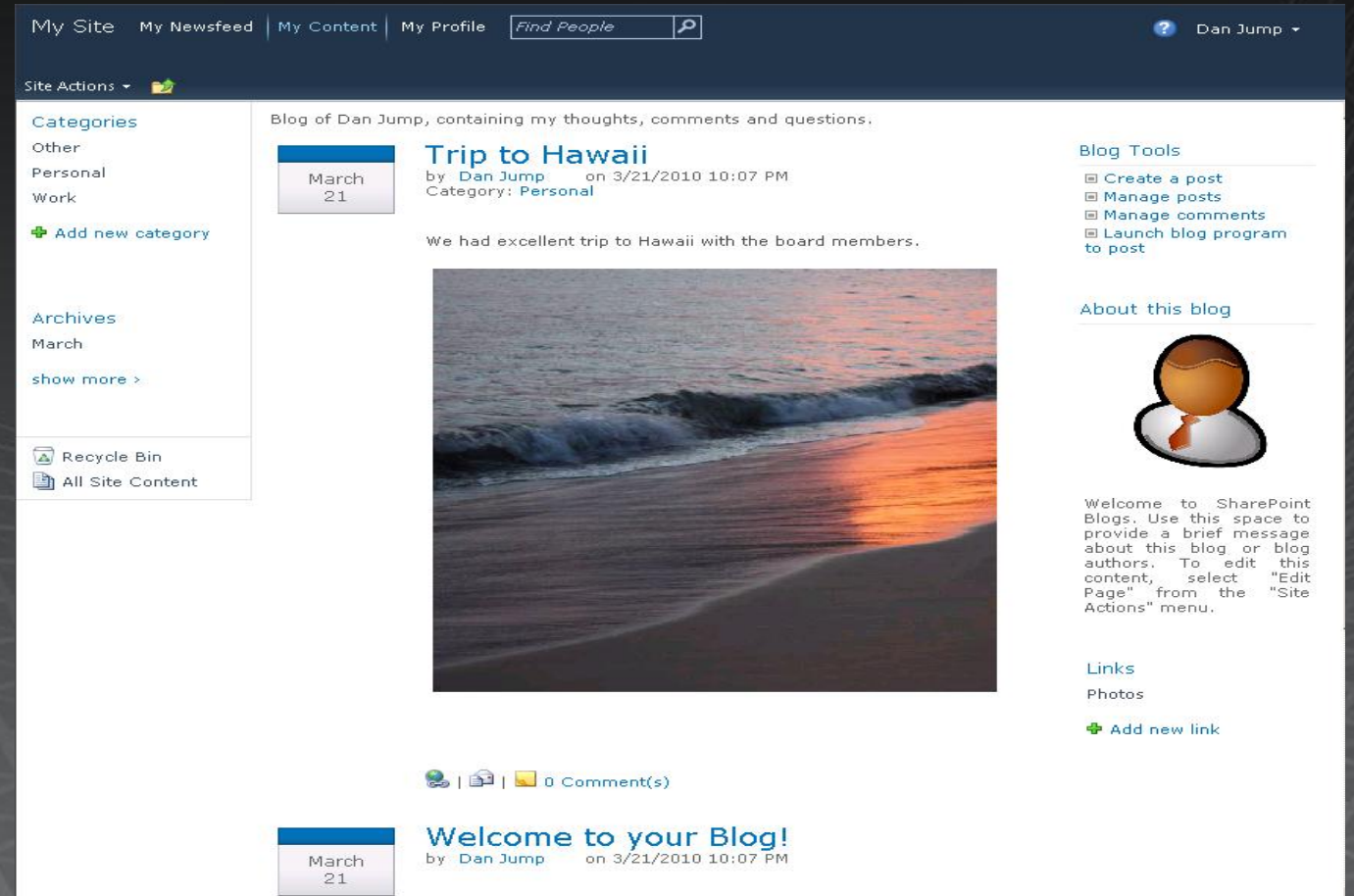
SharePoint also supports a wide variety of mobile browsers, which includes:

- IE Mobile on Windows Mobile 5/6 and newer versions
- Safari4 and newer versions on the iPhone and iPad
- BlackBerry 4.x and newer versions
- Nokia S60
- NetFront 3.4, 3.5 and newer versions
- Opera Mobile 8.65 and newer versions
- Openwave 6.2, 7.0 and newer versions

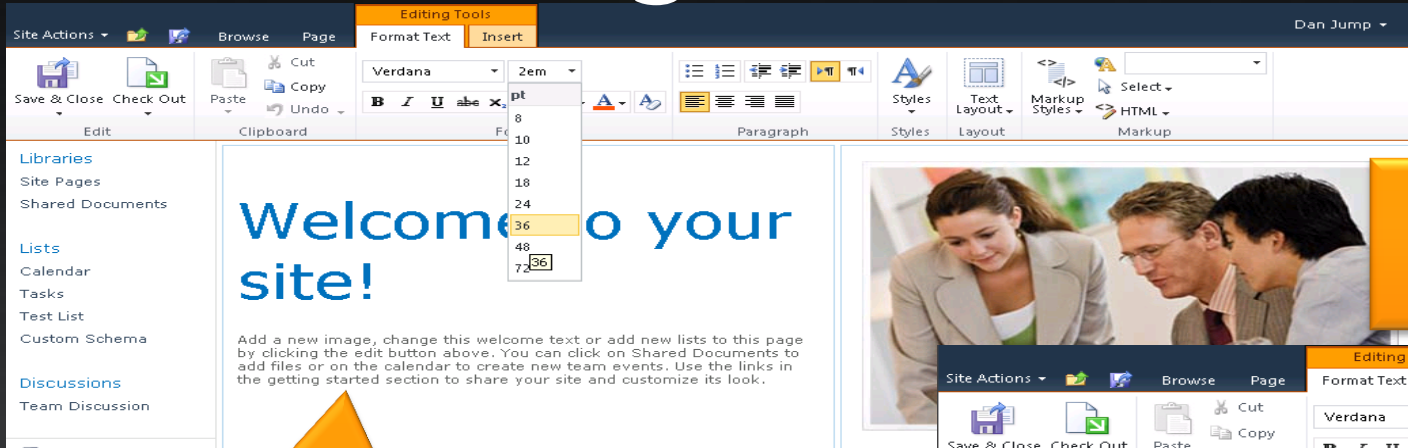
SharePoint mobile device compatibilities out-of-the-box include web part pages, document and picture libraries, lists, blogs, wikis, office documents, search, and My Site. In order for SharePoint to be accessible outside the corporate firewall, however, IT administrators must publish SharePoint via an SSL VPN gateway, use a mobile proxy, or expose SharePoint server to internet directly.

Blogs and Wikis

- Easy page editing
- Wiki-linking with auto-complete
- Cross-browser Rich Text Editor

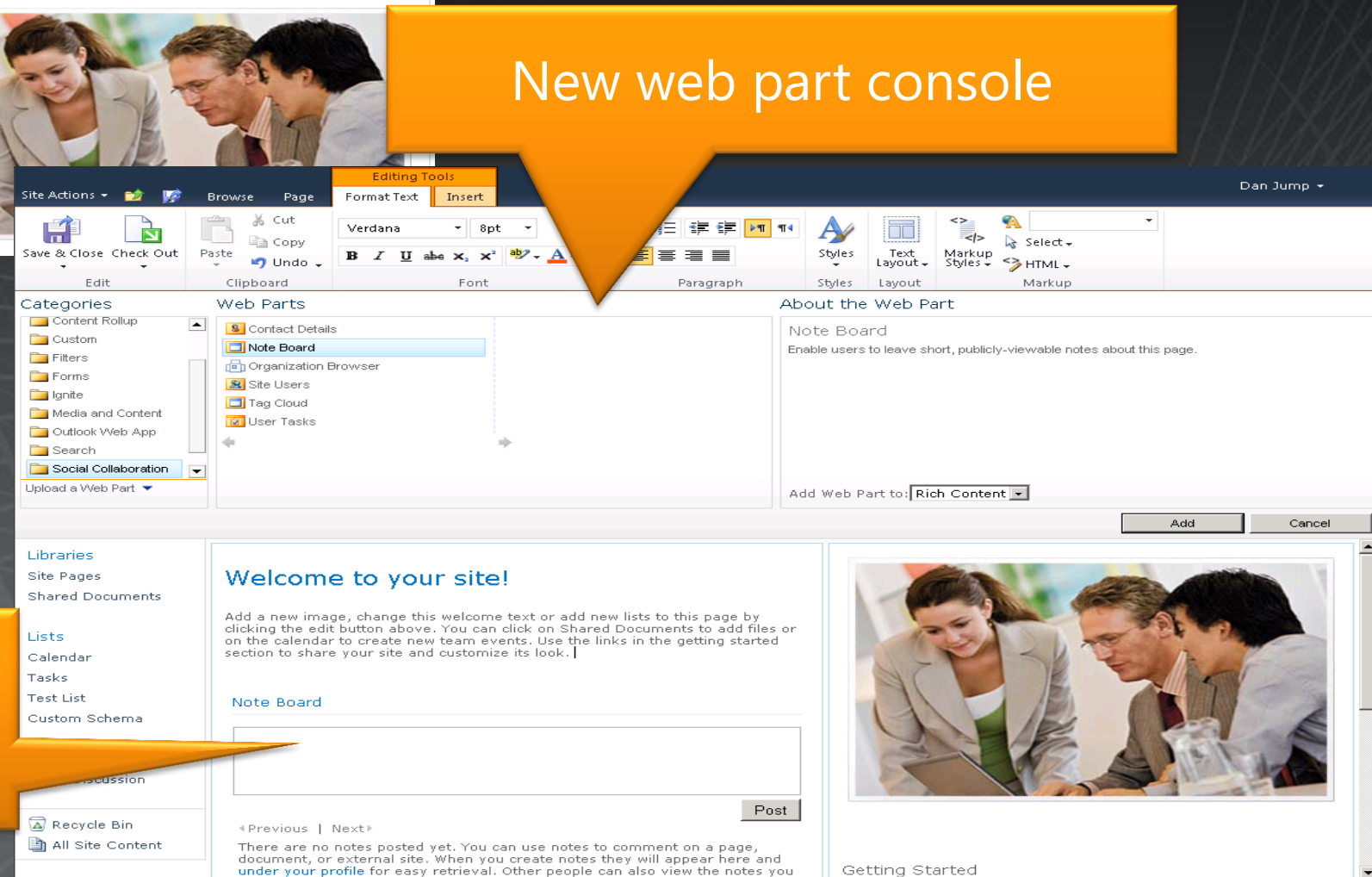


Wiki Editing Available via Mobile Access



Wiki Content with
visual editing

Add web parts to wiki
content



How to Preview the Mobile Experience

Accessing the Mobile Experience

- To access mobile pages, the URL is the same as that of the desktop browser page. However, it can vary depending on the configuration and presence of web proxies. If the proxy-enabled URL is not known, the user can choose the "E-mail a link" button on the Page tab of the SharePoint ribbon in web part page, wiki page, list view page to receive the address in email body. SharePoint 2010 will automatically redirect to the mobile page if a user accesses the URL via a mobile browser.



- Recognition was made by USERAGENT to recognize for accessing mobile browser to redirect to mobile view is managed by the file "compat.browser" within the server's IIS directory that manages device profiles (If the web application port is 80, the file path will be "\\inetpub\\wwwroot\\wss\\VirtualDirectories\\80\\App_Browsers\\compat.browser"). With a text editor, the file can be modified to change redirect behavior. The **IsMobileDevice** attribute of that mobile browser when set to FALSE will cause SharePoint to bypass the mobile view for that browser.

Mobile Development Business Requirements

- Are your customers looking for an app or a web site?
- Apps are for frequent customers requiring a more tailored experience
- Utilize available usage analytics and published statistics
- What are the devices that they are using?
- What versions of the devices are being used?
- What features are your customers looking for?
- Understanding requirements and expectations for mobile experience
- What kind of content is being delivered?
- User input, graphical interface, advanced hardware

Mobile Deployment Considerations

- **Elements that Need to be Configured to Properly Deploy SharePoint 2010 for Mobile Access:**

- Firewall setting
- Enabling mobile access
- Developing governance for custom mobile solutions
- Browser standards and requirements
- Accessing the mobile experience
- Security and Privacy

Firewall Deployment Considerations

Firewall Considerations (Options Available Below)

- As mobile phones connect to the public Internet, the SharePoint server needs to be accessible outside of the corporate firewall. IT administrators can publish SharePoint via an SSL VPN gateway, use a mobile proxy or expose SharePoint server to internet directly.

SSL VPN Access

- One option is to use an SSL VPN gateway to publish SharePoint sites across the firewall.

Microsoft Forefront Access Gateway 2010

- Microsoft's Forefront Unified Access Gateway 2010 delivers comprehensive secure remote access to corporate resources for employees, partners, and vendors on both managed and unmanaged PCs and mobile devices. (SP1 is now available for UAG)
- Once the SharePoint server is published outside the firewall, the Alternative Access Mapping settings in the Central Administration page need to be configured.
- In addition, the sites to be published need to belong to a zone which allows cross firewall access.

Additional Security and Privacy

Security and Privacy

- Within the firewall SharePoint Workspace mobile client uses NTLM or Kerberos authentication schemes. Outside the firewall Basic authentication scheme over SSL is used to communicate with the SharePoint server published on UAG.
- Recommend enabling SSL communication for mobile browsing access to maintain secure communications between the mobile device and SharePoint server.
- When 2-factor authentication is required, it needs to be handled by the SSL VPN or proxy server and the mobile device.
- Finally, administrators should be aware that mobile browsers might cache information on the device. Recommend setting policies around device locking and types of information accessible on mobile phones to minimize the risk of privacy or other issues if a device is lost.

SharePoint 2010 Mobile Proxy Servers

Mobile Proxy Servers

- Mobile Proxy Servers such as Microsoft's Mobile Device Manager or Blackberry Enterprise Server can also handle behind-the-firewall access to SharePoint.
- The server needs to pass the mobile browser's HTTP headers directly through to SharePoint to operate properly.
- The SharePoint Workspace mobile client works with the Microsoft's Mobile Device Manager.

Enable Contents for Mobile Access

Enable Contents for Mobile Access

- While most mobile-enabled content is readily accessible out of the box, there are some data types that are either not supported or require additional configuration steps.
- Web part pages, document libraries/picture libraries, lists (e.g., calendars, contacts, tasks, etc.) blogs, wikis, Office documents, Search and My Site are available out of the box. The "list view" and "image" web parts are mobile enabled out of the box. The My Site and Search function for mobile are only available on SharePoint Server 2010 and not SharePoint Foundation 2010.
- Other web parts must to have a "mobile web part adapter" written which enables mobile functionality. More details on mobile adapters can be found in the Developing Custom Mobile Solutions section below. Pages under the "_Layouts" folder are not available as mobile pages.

SharePoint 2010 Mobile Information Architecture

Good Information Architecture is about how users interact with Your Site in a Mobile Scenario:

- Provide a mobile optimized website
- Use device detection
- Allow users to opt into your desktop site
- With incoming links, do not redirect to the mobile homepage if a mobile version is unavailable. Instead, let the user continue to the desktop-specific page.
- Make sure your desktop website works on mobile browsers
- Understand your businesses mobile use cases
- Know what your customers are looking for
- Prioritize navigation accordingly
- High demand content should be easily accessible, above the fold
- Big buttons and clickable areas
- Tailor layout and content
- Single column layout
- Scrolling is OK but keep the physical layout simple

How the Mobile View is Created in SP 2010

Enable Contents for Mobile Access

- When a mobile users tries to browse to a SharePoint 2010 Site from their mobile device, the mobile browser submits a HTTP GET request to the SharePoint website.
- In this request, a User Agent string is attached so the SharePoint website can identify the browser and possibly even the phone model.
- SharePoint analyzes this UA string, when it is a phone or mobile device, SharePoint will redirect the browser automatically to the mobile view and render the view based on the capability of the browser/phone type.
- A browser definition file is needed in this process to let SharePoint know what this browser can do.
- The browser definition file of a SharePoint Web Application which listening port 80 by default locates at:
- C:\inetpub\wwwroot\wss\VirtualDirectories\80\App_Browsers\compat.browser

Adding Mobile Devices \ Browser Support

- You can modify the SharePoint Browser definition file at:
\\Inetpub\wwwroot\wss\VirtualDirectories\port_number\App_Browsers\compat.browser,
where *port_number* is the port number of a Web application, to add support for new mobile devices
- For testing, you will occasionally want to force a computer browser to open a mobile page by appending "?Mobile=1" to the end of the URL of the page. To force the computer browser to invoke Home Page Redirection, specify default.aspx as the page name, for example:
 - <http://MyServer/MySite/default.aspx?Mobile=1>
 - If the legacy MobileRedirection feature has been activated for the Web site, then adding: <http://MyServer/MySite/m>

Browser Definition Files (Adding Capabilities)

```
<browsers> <browser id="browser name" parentID="parent browser name" refID="reference ID">
<identification> <userAgent match="regular expression" nonMatch="regular expression" />
<header match="regular expression" name="header name" nonMatch="regular expression" />
<capability match="regular expression" name="capability name" nonMatch="regular expression" />
</identification> <capture> <userAgent match="regular expression" /> <header match="regular
expression" name="header name" /> <capability match="regular expression" name="capability name"/>
</capture> <capabilities> <capability name="capability name" value="capability value" />
</capabilities> <controlAdapters markupTextWriterType="type name"> <adapter adapterType="name
of adapter class" controlType="name of control class" /> </controlAdapters> <sampleHeaders>
<header name="header name" value="header value" /> </sampleHeaders> </browser> <gateway
id="gateway ID" parentID="parent browser ID"> <!-- Same child elements as for <browser>.
<identification></identification> <capture></capture> <capabilities></capabilities>
<controlAdapters></controlAdapters> <sampleHeaders></sampleHeaders> --> </gateway>
<defaultBrowser id="Default" parentID="parent browser ID" refID="reference ID" > <!-- Same child
elements as for <browser>. <identification></identification> <capture></capture>
<capabilities></capabilities> <controlAdapters></controlAdapters>
<sampleHeaders></sampleHeaders> --> </defaultBrowser> </browsers>
```

Mobile Governance - Templates

Control Templates

- Mobile views are enabled by default for most SharePoint lists and libraries but an organization can create a custom set of mobile templates available to their users as well as for a specific mobile device.
- SharePoint 2010 mobile features use a system of rendering templates that is similar to the one implemented for pages displayed in the browser.
- The MobileDefaultTemplates.ascx and GbwMobileDefaultTemplates.ascx files in the %ProgramFiles%\Common Files\Microsoft Shared\web server extensions\14\TEMPLATE\CONTROLTEMPLATES directory contain all the default rendering template definitions that are used in mobile pages.
- SharePoint 2010 support for Mobile Blogging includes support for all the other SharePoint mobile features, such as pagination, list field customization, mobile view customization, mobile home page redirection, and so on. To build your own mobile blog solution, you can customize SharePoint mobile blog pages and mobile controls similarly to the way you customize other mobile pages and controls.

Mobile Governance – Web Parts \ Wikis

Mobile Sites with Custom Web Parts

- The mobile page (%ProgramFiles%\Common Files\Microsoft Shared\web server extensions\14\TEMPLATE\LAYOUTS\MOBILE\mblwp.aspx) renders on mobile devices the content of any Web Part site page unless there is a specific purpose-built mobile page for it (as there is, for example, for the home page of blog sites). However, Web Parts for which there is no mobile adapter control do not appear on the mobile version of the page.
- The mobile version of the page is not itself a Web Parts page and the mobile adapters are ordinary Web controls, not Web Parts. The page inherits from the [WebPartMobilePage](#) class, but the latter class does not derive from [WebPartPage](#).

Mobile Sites with Custom Wiki Features or Functionality

- The mobile page (%ProgramFiles%\Common Files\Microsoft Shared\web server extensions\14\TEMPLATE\LAYOUTS\MOBILE\mblwiki.aspx) renders the content of any wiki-enabled site page on mobile devices, provided that the mobile device supports Rich Text. The Rich Text and any Web Parts on the page (for which there is a mobile adapter) will appear.

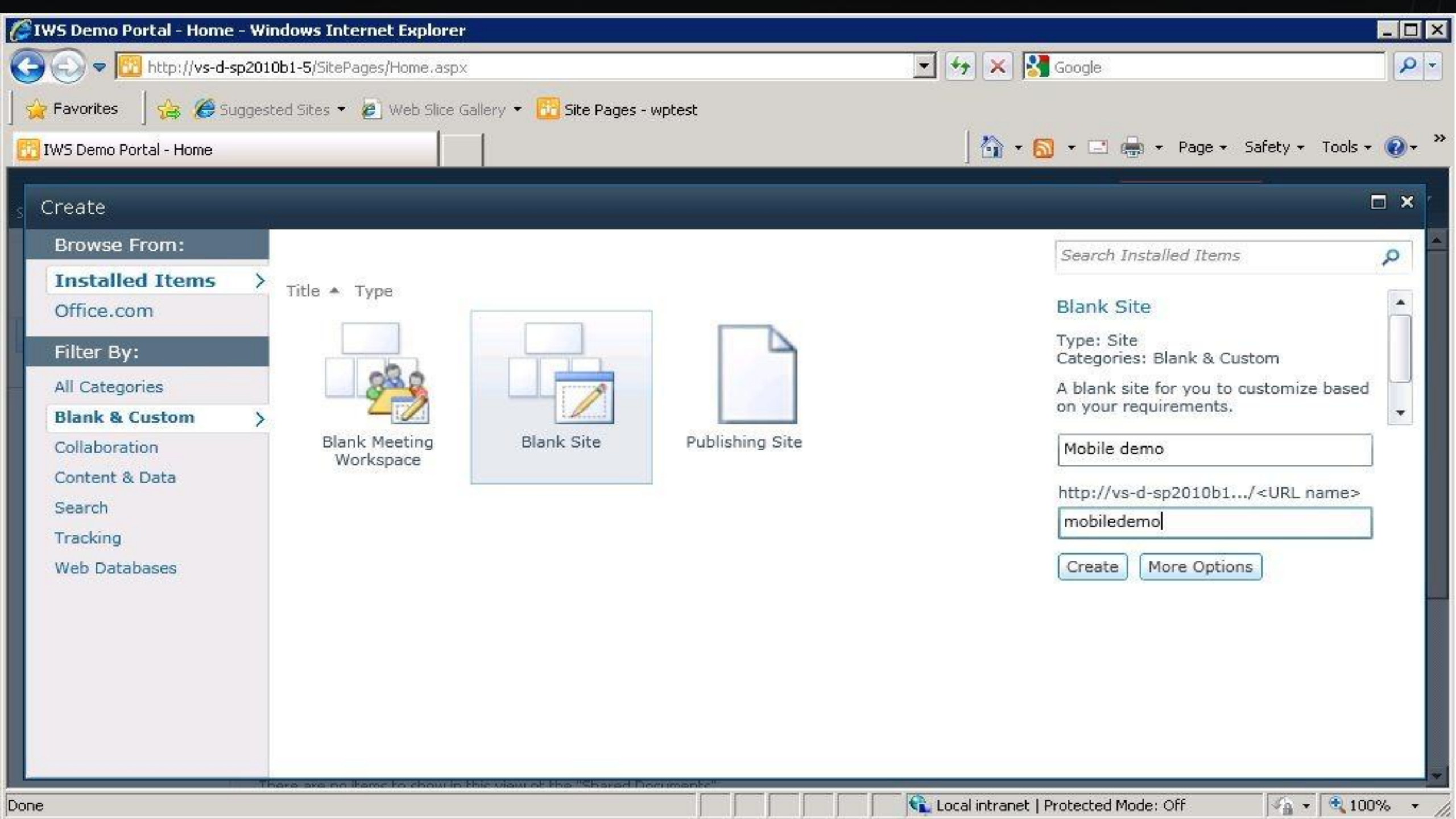
Consideration for Infrastructure

Keep track of the payload sizes of your mobile pages

- While cell network speeds continue to increase, you can't be sure everyone has the same level of access to 3G/4G
- Creating custom SharePoint Sites with custom masterpages and markup give you the control to limit the physical page size
- When using images and other forms of media, keep their size in mind for your mobile customers

With so many mobile devices available, version support should always be a consideration

- For native applications, the difference between one version of a mobile OS to another can bring major changes
- For mobile applications, understand the rendering engine being used across various devices



New Project

Recent Templates

Installed Templates

Visual C#

Windows

Web

Office

Cloud Service

Reporting

SharePoint

2010

2007

Silverlight

Test

WCF

Workflow

Other Languages

Other Project Types

Database

Modeling Projects












Test Projects

Online Templates

.NET Framework 4

Sort by: Default

Search Installed Templates

	Empty SharePoint Project	Visual C#
	Visual Web Part	Visual C#
	Sequential Workflow	Visual C#
	State Machine Workflow	Visual C#
	Business Data Connectivity Model	Visual C#
	Event Receiver	Visual C#
	List Definition	Visual C#
	Content Type	Visual C#
	Module	Visual C#
	Site Definition	Visual C#
	Import Reusable Workflow	Visual C#

Type: Visual C#

A project for creating a visual web part.

Per user extensions are currently not allowed to load. [Enable loading of per user extensions](#)

Name: MobileWebPartDemo

Location: c:\users\edwinv\documents\visual studio 2010\Projects

Solution name: MobileWebPartDemo

Browse...

☒ Create directory for solution

☐ Add to source control

OK

Cancel

MobileWebPartDemo - Microsoft Visual Studio (Administrator)

File Edit View Refactor Project Build Debug Team Data Tools Architecture Test Analyze Window Help

Debug Any CPU

VisualWebPart1UserControl.ascx.cs* VisualWebPart1.webpart VisualWebPart1.cs

MobileWebPartDemo.VisualWebPart1.VisualWebPart1User Page_Load(object sender, EventArgs e)

```
using System;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;

namespace MobileWebPartDemo.VisualWebPart1
{
    public partial class VisualWebPart1UserControl : UserControl
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            Literal litHello = new Literal();
            litHello.Text = "Hello World. This is the normal SharePoint web part.";
            Controls.Add(litHello);
        }
    }
}
```

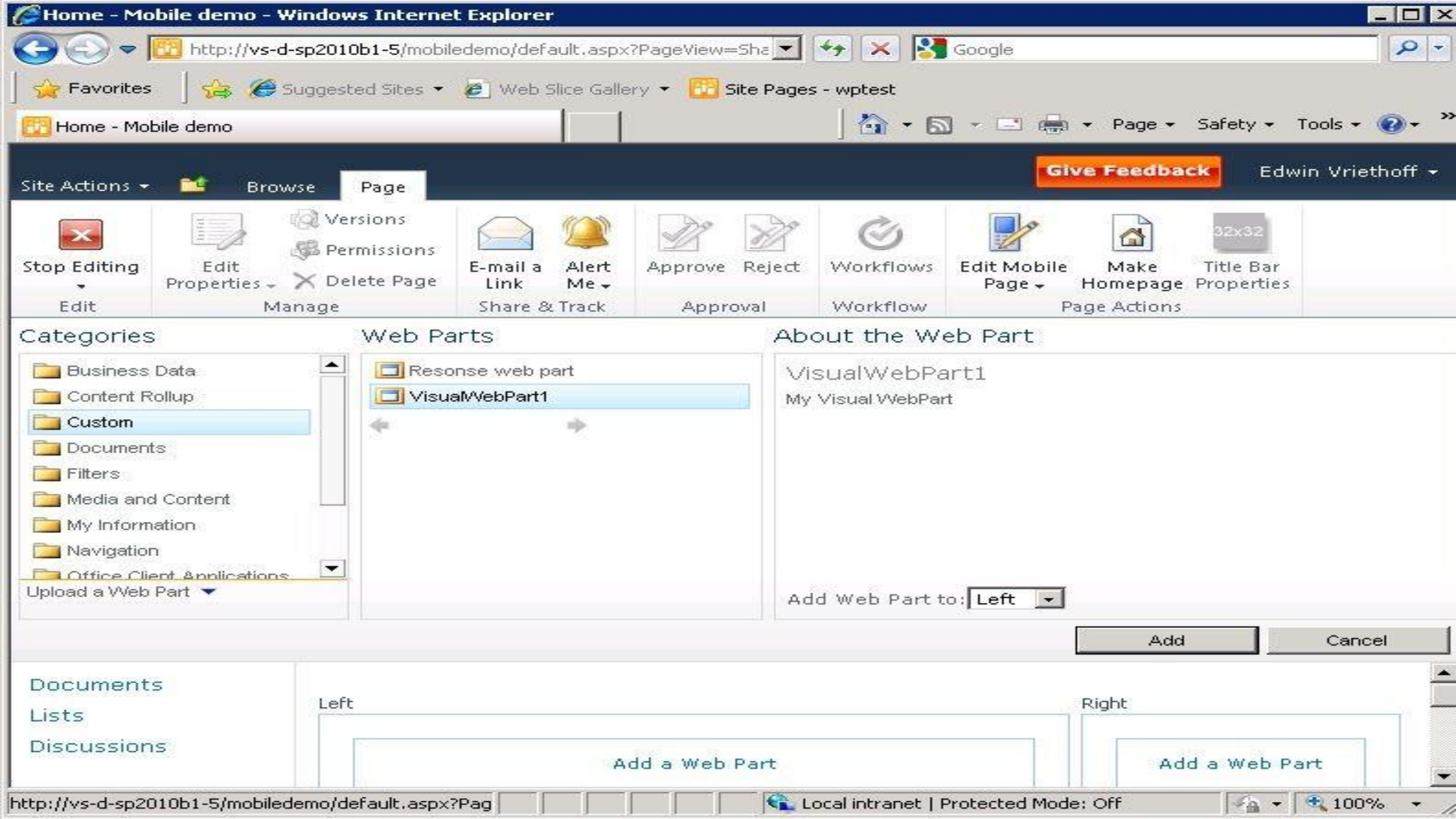
100 %

Ready Ln 14 Col 36 Ch 36 INS

Solution Explorer

- MobileWebPartDemo
 - Properties
 - References
 - Features
 - Package
 - VisualWebPart1
 - Elements.xml
 - VisualWebPart1.cs
 - VisualWebPart1.webpart
 - VisualWebPart1UserControl.ascx
 - VisualWebPart1UserControl.ascx.cs
 - key.snk

Properties



compat.browser* - Microsoft Visual Studio (Administrator)

File Edit View Debug Team XML Data Tools Architecture Test Analyze Window Help

compat.browser* X

```
<?xml version="1.0" encoding="utf-8"?>
<browsers>
  <browser refID="default">
    <controlAdapters>
      <adapter controlType="Microsoft.SharePoint.WebControls.ListMenu"
        adapterType="Microsoft.SharePoint.WebControls.ListMenuAdapter" />
      <adapter controlType="Microsoft.SharePoint.WebPartPages.XsltListViewWebPart, Microsoft.SharePoint, Version=14.0.0.0, Culture=neutral, PublicKeyToken=71e9bce4515664f1"
        adapterType="Microsoft.SharePoint.WebPartPages.XsltListViewWebPartMobileAdapter, Microsoft.SharePoint, Version=14.0.0.0, Culture=neutral, PublicKeyToken=71e9bce4515664f1" />
      <adapter controlType="Microsoft.SharePoint.WebPartPages.ListViewWebPart, Microsoft.SharePoint, Version=14.0.0.0, Culture=neutral, PublicKeyToken=71e9bce4515664f1"
        adapterType="Microsoft.SharePoint.WebPartPages.ListViewWebPartMobileAdapter, Microsoft.SharePoint, Version=14.0.0.0, Culture=neutral, PublicKeyToken=71e9bce4515664f1" />
      <adapter controlType="Microsoft.SharePoint.Applications.GroupBoard.WebPartPages.WhereaboutsWebPart, Microsoft.SharePoint, Version=14.0.0.0, Culture=neutral, PublicKeyToken=71e9bce4515664f1"
        adapterType="Microsoft.SharePoint.Applications.GroupBoard.WebPartPages.WhereaboutsWebPartMobileAdapter, Microsoft.SharePoint, Version=14.0.0.0, Culture=neutral, PublicKeyToken=71e9bce4515664f1" />
      <adapter controlType="MobileWebPartDemo.VisualWebPart1.VisualWebPart1, MobileWebPartDemo, Version=1.0.0.0, Culture=neutral, PublicKeyToken=71e9bce4515664f1"
        adapterType="MobileWebPartDemo.SharePoint.WebPartPages.MobileAdapters.VisualWebPart1MobileAdapter, MobileWebPartDemo, Version=1.0.0.0, Culture=neutral, PublicKeyToken=71e9bce4515664f1" />
    </controlAdapters>
  </browser>
  <browser refID="IE">
    <capabilities>
      <capability name="supportsFileUploadForSharePointMobile" value="true" />
      <capability name="optimumPageWeight" value="1500" />
    </capabilities>
  </browser>
  <browser id="Safari2" parentID="Safari1Plus">
    <controlAdapters>
      <adapter controlType="System.Web.UI.WebControls.Menu" />
    </controlAdapters>
  </browser>
</browsers>
```

100 %

Item(s) Saved Ln 20 Col 84 Ch 84 INS



Shared Documents - All Documents

http://Shared%20Documents/Forms/AllItems.aspx

Google

Apple Yahoo! Google Maps YouTube Wikipedia News (10) Popular

Site Actions

Library Tools

System Account

New Document

Upload Document

New Folder

Edit Document

Check Out

Check In

Discard Check Out

View Properties

Edit Properties

E-mail a Link

Download a Copy

Workflows

Publish

I Like It

Tags & Notes

Upload Document

Upload Multiple Documents

Drop Off Library

Libraries

Site Pages

Shared Documents

Drop Off Library

Lists

Calendar

Tasks

Phone Call Mem

Discussions

Team Discussion

Recycle Bin

All Site Content

Name

Modified

Modified By

is view of the "Shared Documents" document library. To add a new item, click "New" or "Upload".

Upload Document

Upload a document from your computer to this library.

Upload Multiple Documents

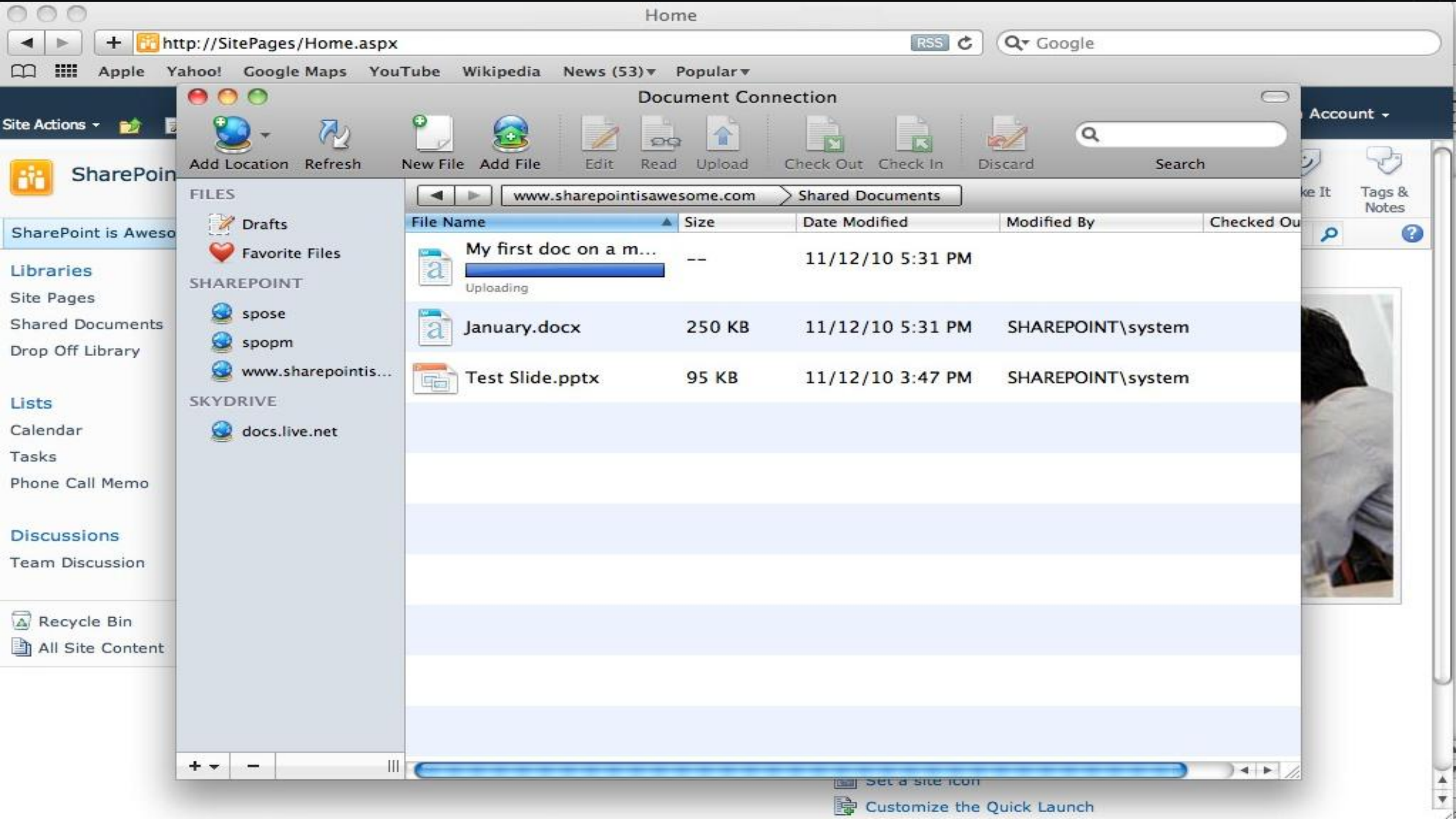
Upload multiple documents from your computer to this library.

This control is currently disabled.

You might not have the right permission level to use this, you might need to select an object or item, or the control might not work in this context.

Press F2 for more help.





Document Connection



Add Location



Refresh



New File



Add File



Edit



Read



Upload



Check Out



Check In



Discard



Search

FILES



Drafts



Favorite Files

SHAREPOINT



spose



spopm



www.sharepointis...

SKYDRIVE



docs.live.net



www.sharepointisawesome.com

Shared Documents

File Name	Size	Date Modified	Modified By	Checked Out
-----------	------	---------------	-------------	-------------



My first doc on a m...

--

11/12/10 5:31 PM

Uploading



January.docx

250 KB

11/12/10 5:31 PM

SHAREPOINT\system

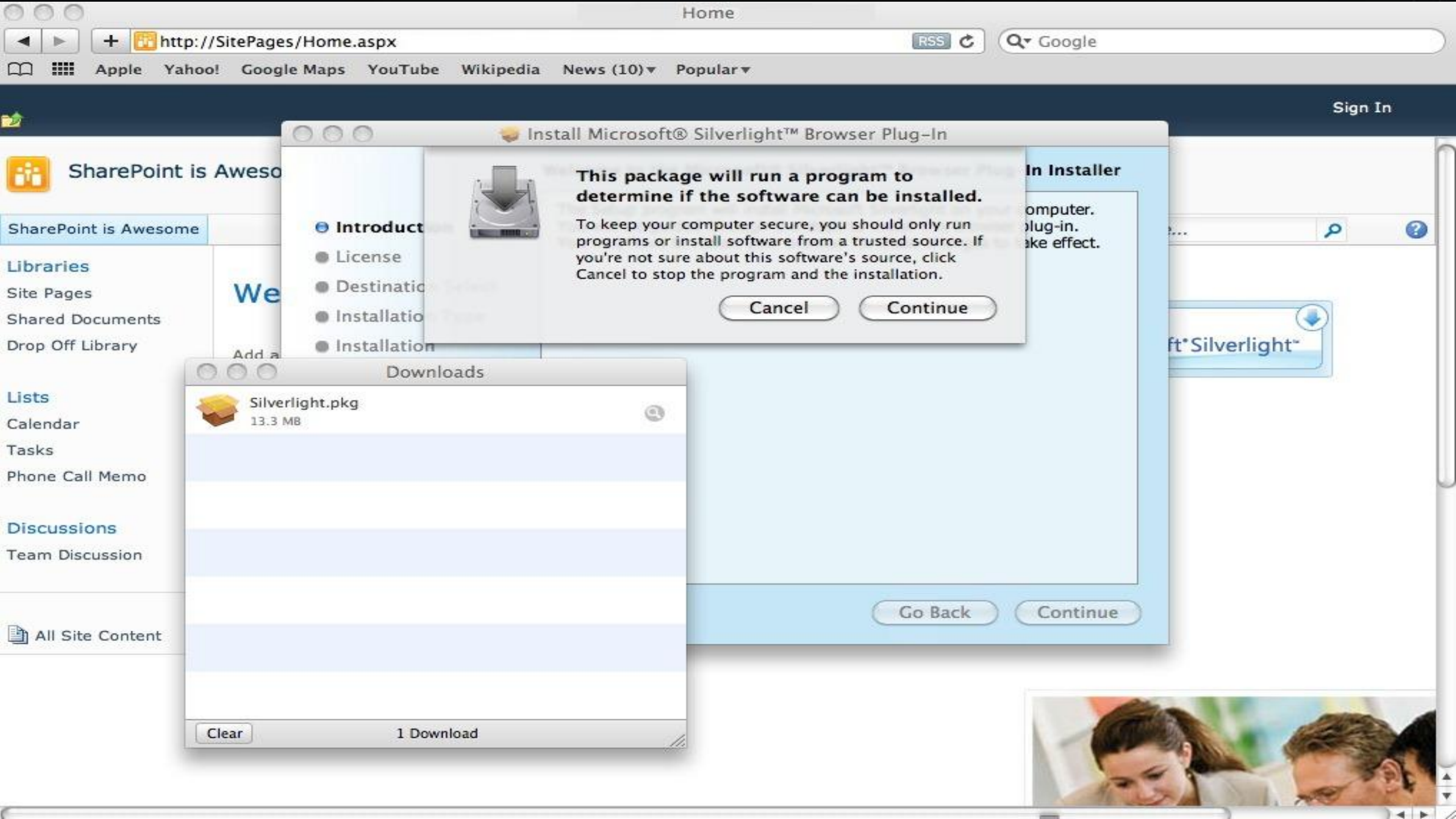


Test Slide.pptx

95 KB

11/12/10 3:47 PM

SHAREPOINT\system



It is Awesome ▶ Home

Home

Search this site...



Welcome to your site!

Add a new image, change this welcome text or add new lists to this page by clicking the edit button above. You can click on Shared Documents to add files or on the calendar to create new team events. Use the links in the getting started section to share your site and customize its look.

Shared Documents

<input type="checkbox"/>	Type	Name	Modified	<input type="checkbox"/> Modified By
--------------------------	------	------	----------	--------------------------------------

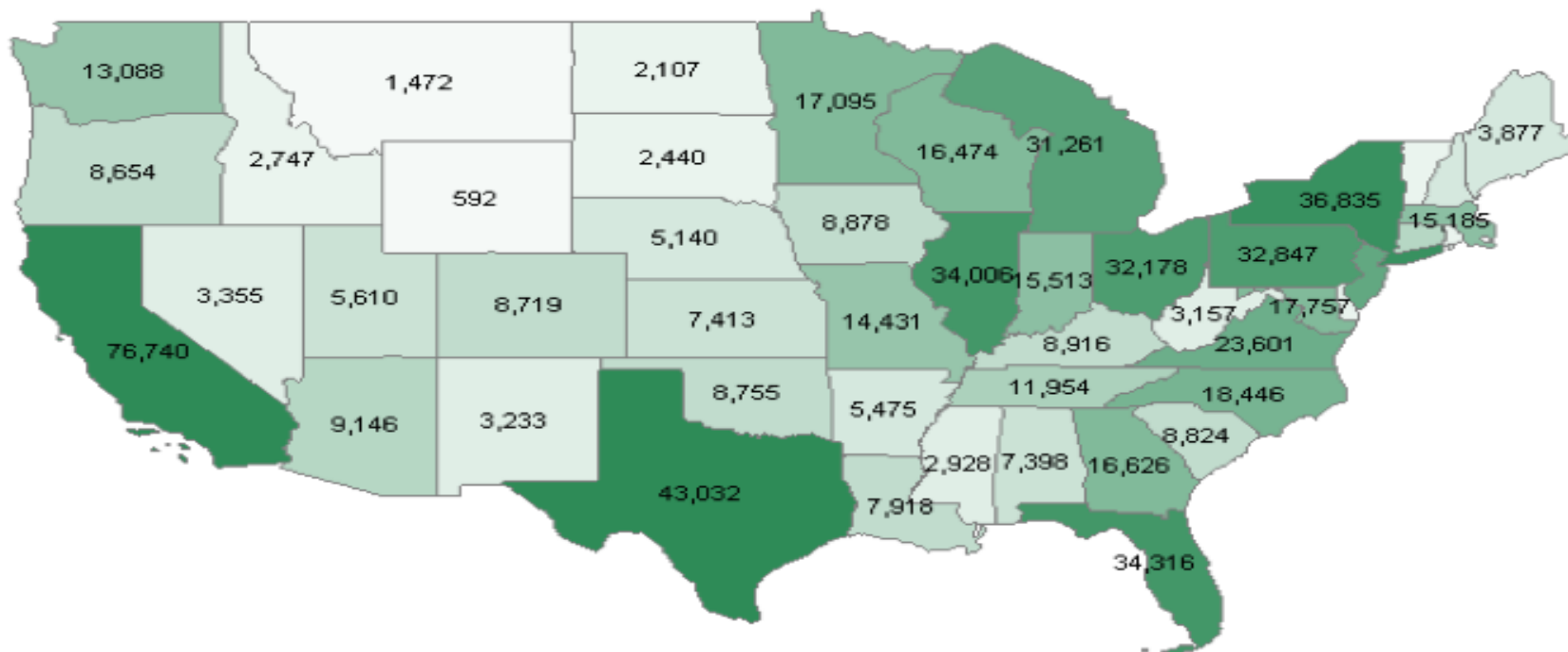
There are no items to show in this view of the "Shared Documents" document library.

HTML5 Video Tag Demo

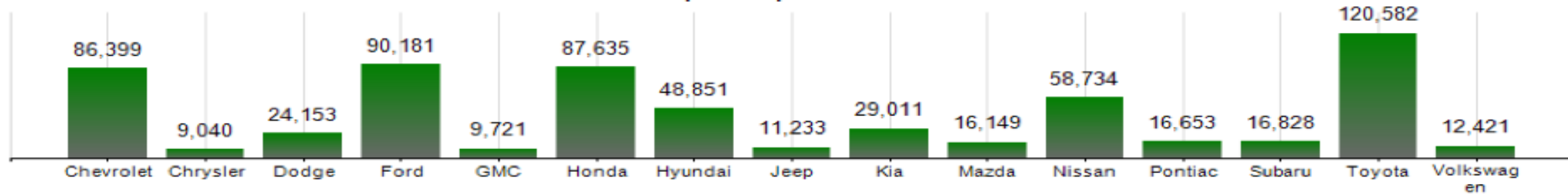
Media Web Part



Trade-In Count by State



Most Popular Replacement Vehicles



SharePoint Communities

Use My Site to share your interests, responsibilities and activities



Tai Lee - Windows Internet Explorer

http://moss.contoso.com/sites/my/Person.aspx?accountname=CONTOSO\tail

Site Actions Browse Share & Track Give Feedback My SharePoint Tom Russo

Tai Lee Profile

My Profile Organization Tags All Sites

Overview Colleagues Memberships Tags and Notes Documents Pictures Sites

In Prague for a Differential conve...

Tai Lee
Engineer
+1 425 555 0131
Seattle

Responsibilities : Gears

Past projects : Hammerhead Reinforced Shaft

Birthday : November 02

+ Add as colleague

Hide details

Recent Activities

Earlier

Added a Note Board post: **Contoso Gear and Tooth.pptx** - Thursday, July 23, 2009

Tagged A4OD Planetary Gear.docx with Great Design - Thursday, July 23, 2009

My Organization Chart

Reporting Hierarchy

- Frank Martinez, COO
 - Andy Ruth, Senior Vice President - Engineering
 - Diane Prescott, General Manager Product Development
 - Tai Lee, Engineer
 - Todd Rowe, Engineer

Organization Browser

Trusted sites | Protected Mode: Off

Interests

Define responsibilities or interests with tags

Activities

Group and Responsibilities

Feature Area(s):

Preferred Name Alias 1:

Preferred Name Alias 2:

Responsibilities:

MOSS UX

Include things related to current projects, tasks or job description. (e.g. Sales, Project XYZ, Marketing Driver)

Suggested Keywords

application development marketing beta evaluation research construction filter visuals

Interests:

MOSS UX

Include things related to current projects, tasks or job description. (e.g. Sales, Project XYZ, Marketing Driver)

Suggested Keywords

application development marketing beta evaluation research construction filter visuals

Mobile phone:

Everyone

SharePoint Communities

Easily find expertise with People Search



Search People Results: gears - Windows Internet Explorer

http://moss.contoso.com/Search/Pages/peopleresults.aspx?k=gears

Search People Results: gears

Site Actions | Browse | Edit | Share & Track

Search People Results: gears

All Sites | People |

gears Search Options

Refine Results:

All

Name

Expertise

Any Job Title

Engineer

General Manager Pro...

General Manager - P...

Senior Vice Preside...

Any Organization

Sr. Manager

Results 1-5 of 5.

Sort by: Default

Tai Lee
Engineer
+1 425 555 0131
Add as colleague
Browse in organizational chart
View recent content

About Me: Tai Lee is a highly experienced engineer, specializing in **gears**, sprocket, and cog development. She is also an expert in calculating gear ratios.

Responsibilities: **Gears**

Summary: CONTOSO\Tai ... Tai ... Lee ... +1 425 555 0131 ... Engineering ... Hammerhead Reinforced Shaft ... Seattle

Andy Ruth
Senior Vice President - Engineering
Sr. Manager
(425) 555-1010
2010
AndyR@contoso.com
My Colleague's Colleague
Add as colleague
Browse in organizational chart
View recent content

About Me: Andy is the SVP for engineering. He started his career as an engineer designing **gears** for Contoso.

Summary: contoso\andyr ... Andy ... Ruth ... 2010 ... Sr. Manager ...

Julian Isla
General Manager - Product Development
Sr. Manager
(425) 555-2020
1020
JulianI@contoso.com
My Colleague's Colleague
Add as colleague
Browse in organizational chart
View recent content

About Me: Julian Isla is the Senior Business Development Manager. As Senior Business Development Manager, Julian is responsible for establishing and creating strategic partnerships with like minded companies to create distribution and marketing opportunities for Contoso.

Skills: **Gears**

Summary: contoso\juliani ... Julian ... Isla ... 1020 ... Sr. Manager ...

Diane Prescott
General Manager Product Development
Sr. Manager
(425) 555-1717

About Me: Diane Prescott is the General Manager of Product Development at. As GM Diane oversees production of **gears** for Contoso.

Summary: contoso\diane ... Diane ... Prescott ... 2017 ... Sr. Manager ...

Done

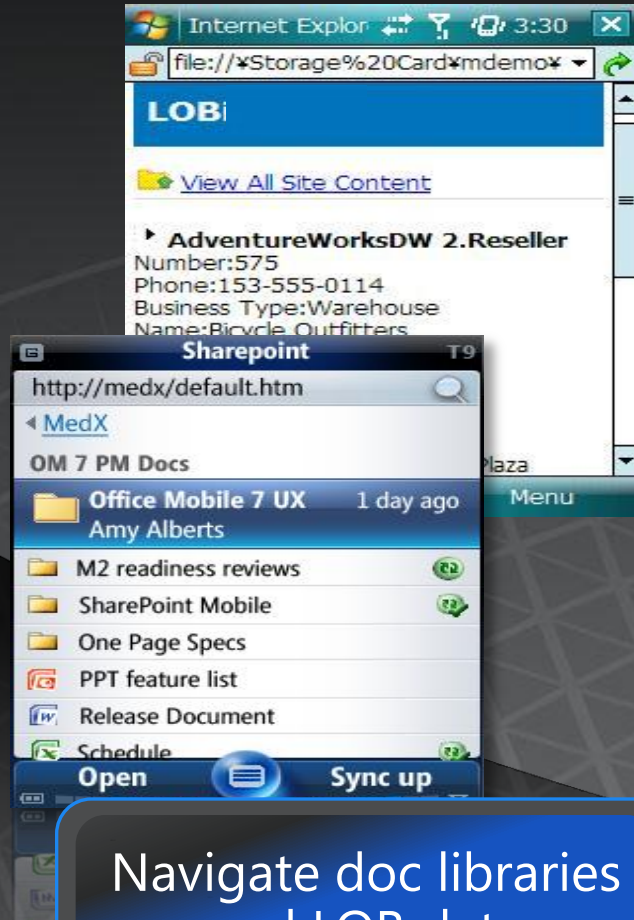
Trusted sites | Protected Mode: Off

100%

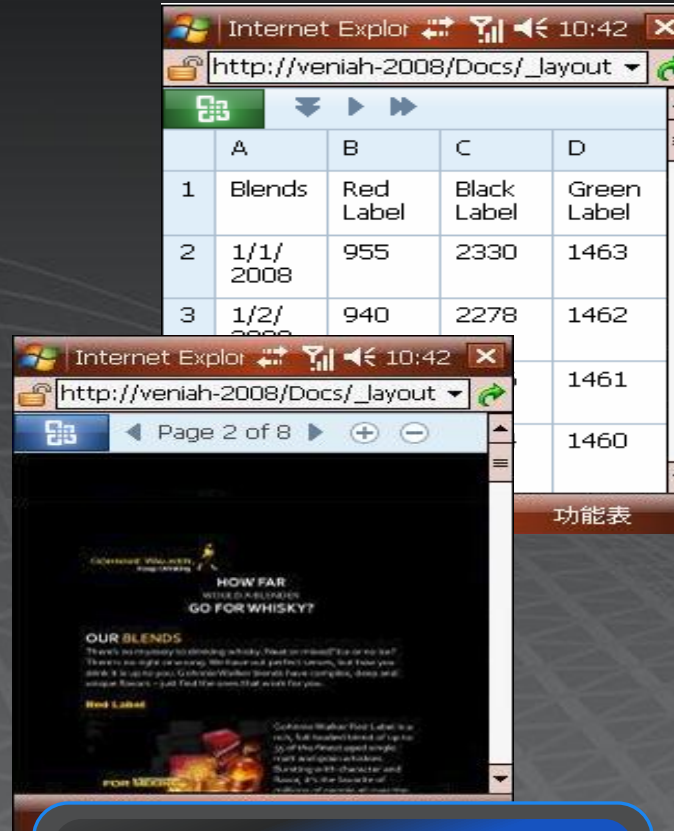
Search by expertise and profile

SharePoint Sites - Mobile

Work anywhere with Mobile read-write access



Navigate doc libraries
and LOB data

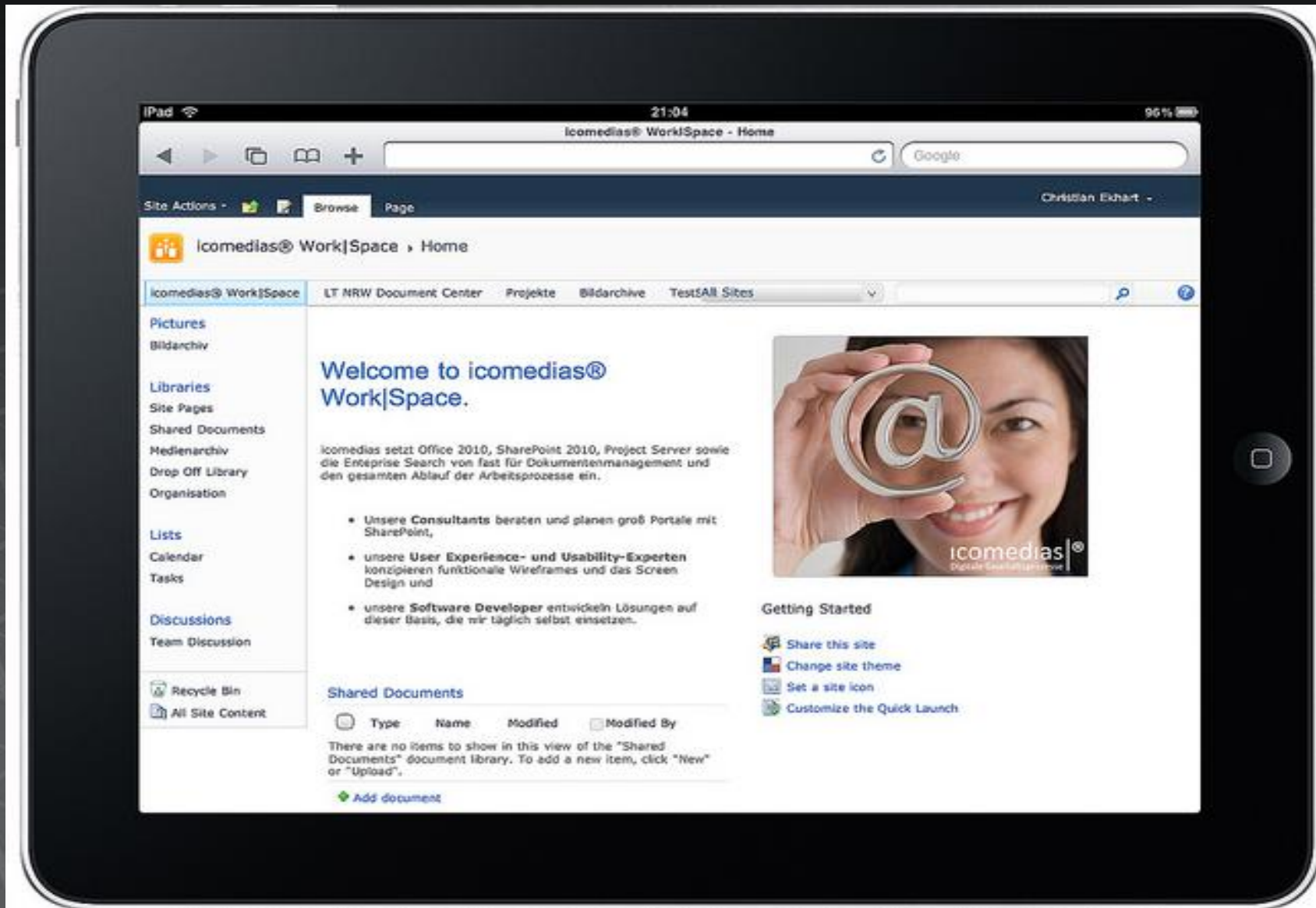


Interact with Office
content

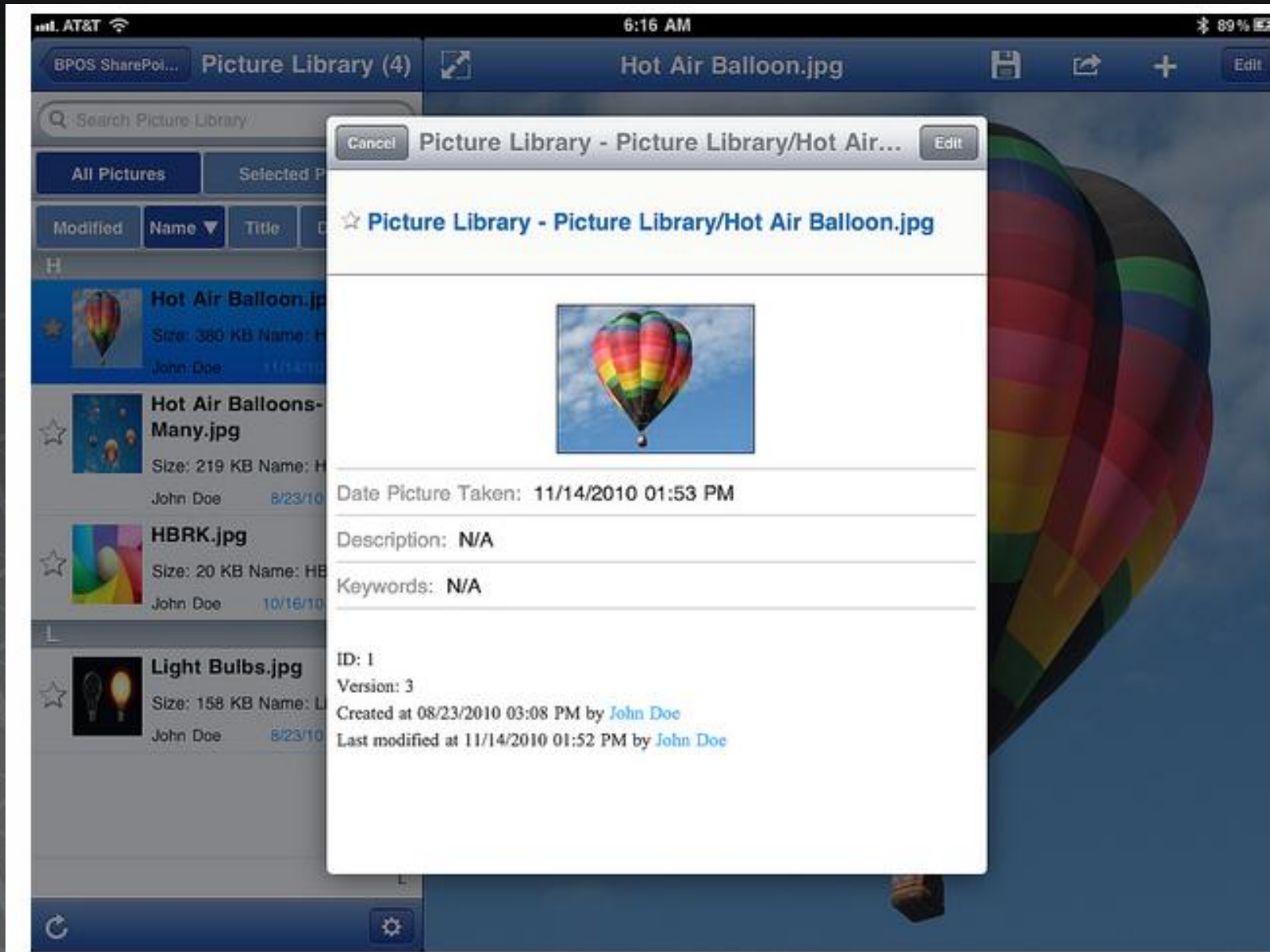


Search people

SharePoint 2010 & iPad

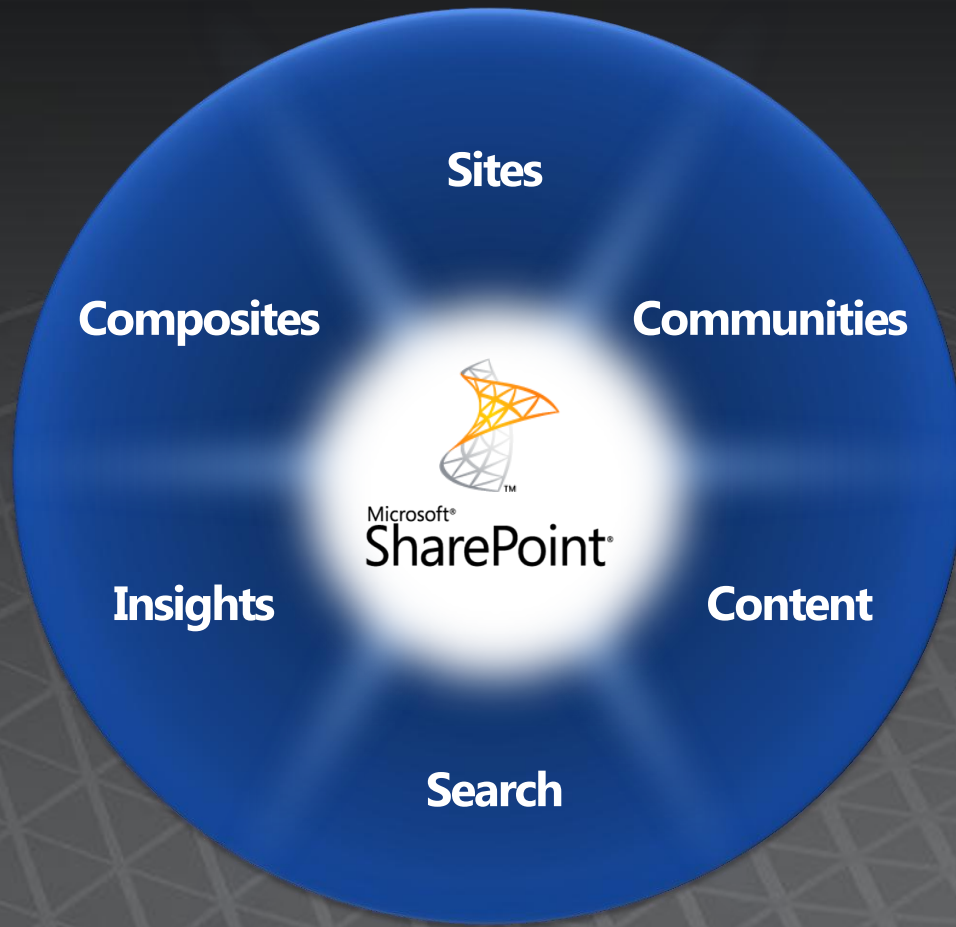


SharePoint 2010 & iPad



Microsoft SharePoint 2010

The **Business Collaboration Platform** for the Enterprise and the Web

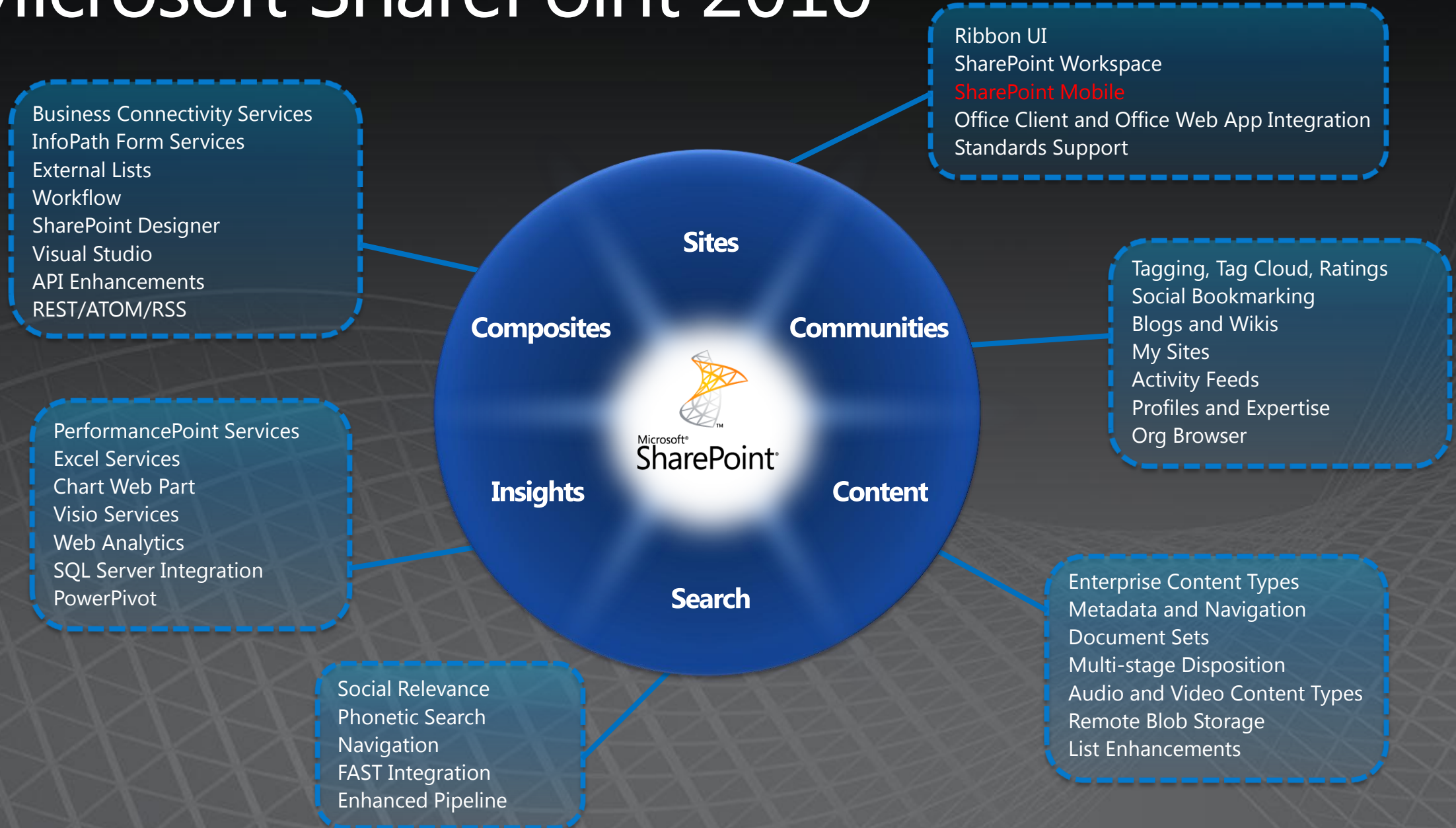


Connect and Empower People

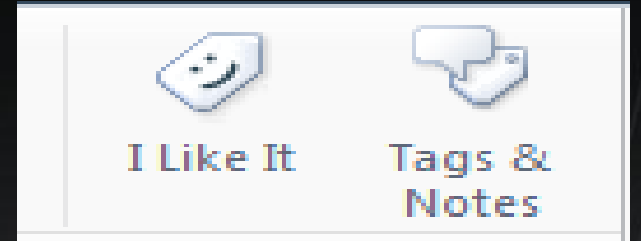
Cut Costs with a Unified Infrastructure

Rapidly Respond to Business Needs

Microsoft SharePoint 2010

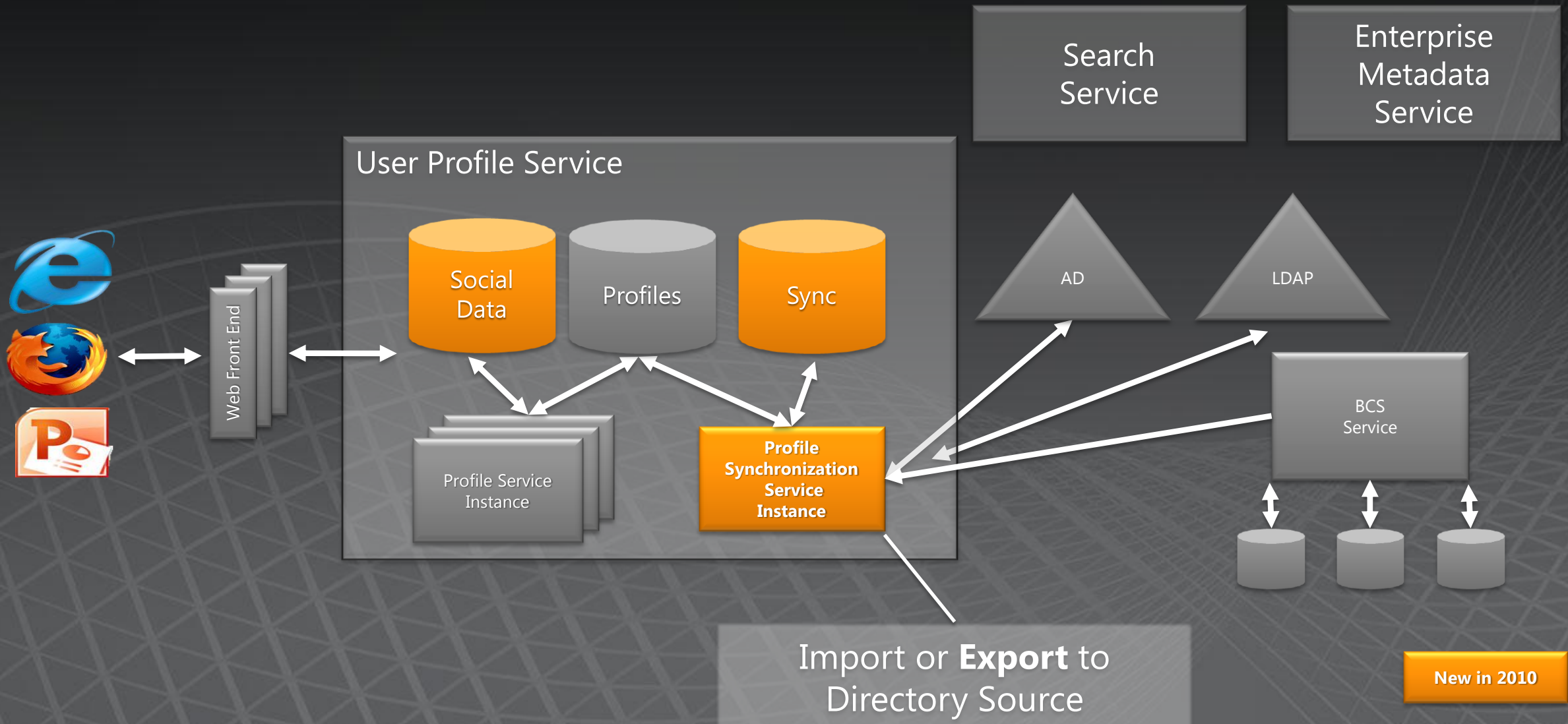


Social Feedback in 2010



- Feedback = Social Tags, Notes and Ratings
 - Helps categorize, annotate, promote and help retrieval of relevant links
 - Applies to any URL, inside or outside of SharePoint with bookmarklet
 - Own permission setting for writing
 - Primary mechanism for promoting documents and web pages to the newsfeed
- At the very basic level it is>
 - Person, URI, Feedback

Profile Synchronization



Security Trimming for Social Content

- Social content is dependent on search functionality
- Search will use specific social security trimmer by default for all social content
 - User is not able to see for example tags to which target he/she has permissions to
- Can be configured using PowerShell
- Support for writing custom security trimming available

User profile timer jobs

- There are numerous timer jobs, which are related to social functionalities
- Timer jobs are responsible to update social information for MySites etc.

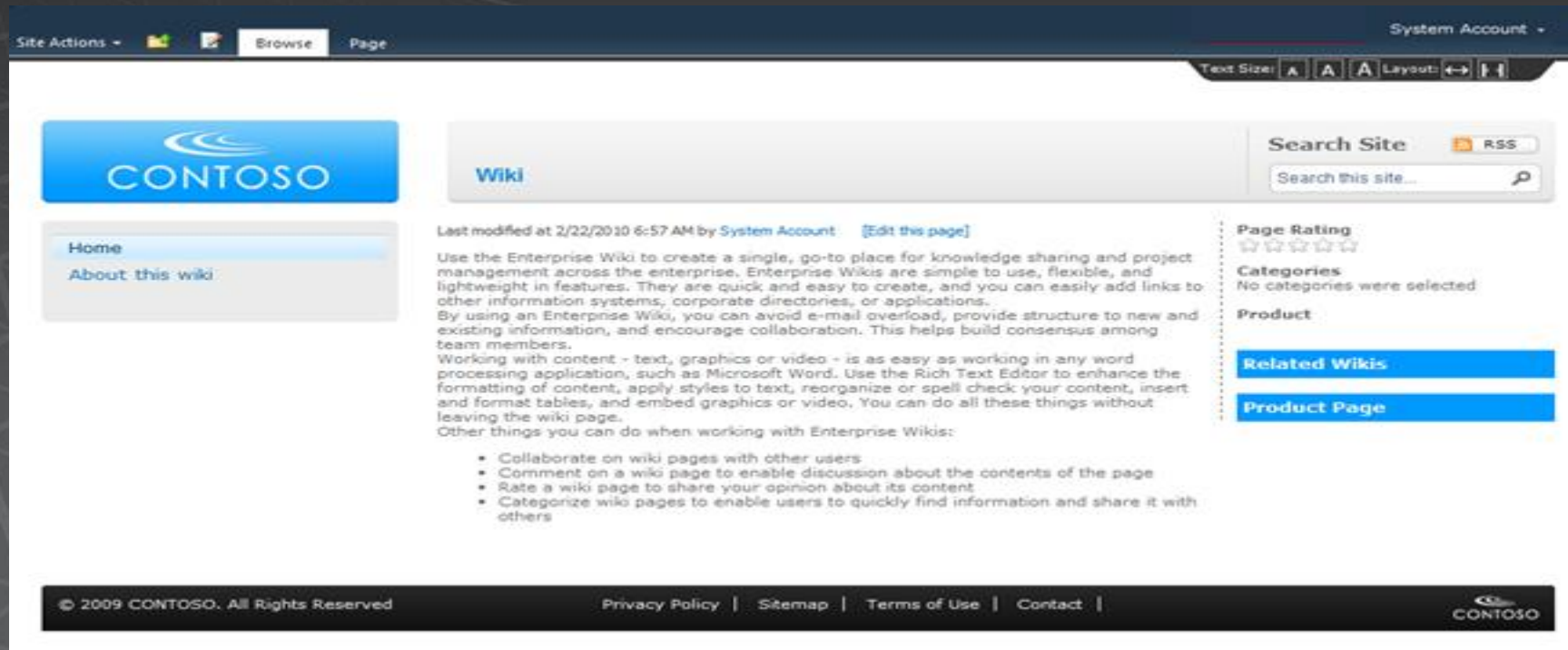
User Profiles - Activity Feed Cleanup Job	Daily
User Profiles - Activity Feed Job	Hourly
User Profiles - Audience Compilation Job	Weekly
User Profiles - My Site Suggestions Email Job	Monthly
User Profiles - Social Data Maintenance Job	Hourly
User Profiles - Social Rating Synchronization Job	Hourly
User Profiles - System Job to Manage User Profile Synchronization	Minutes
User Profiles - User Profile Change Cleanup Job	Daily
User Profiles - User Profile Change Job	Hourly
User Profiles - User Profile Incremental Synchronization	Daily
User Profiles - User Profile Language Synchronization Job	Minutes
User Profiles - User Profile to SharePoint Full Synchronization	Hourly
User Profiles - User Profile to SharePoint Quick Synchronization	Minutes

Enterprise Wiki Architecture

- Enterprise Wiki is a publishing site
 - Branded using familiar Master pages and CSS
 - Extended using content types and page layouts
 - Scalable via publishing feature cache scheme
- Enterprise Wiki using managed metadata
 - Metadata column automatically added

Branding

- Same as in standard publishing site
 - Upload or create master page
 - Upload or create CSS file



Content types & Page Layouts

- Add new wiki page types
 - Add Enterprise Wiki page derived content type
 - Add one or more page layouts
 - Change default page layout

CervezapediA Master Page Gallery : All Master Pages

Use the master page gallery to store master pages. The master pages in this gallery are available to this site and any sites underneath it.

CervezapediA

Home
About this wiki
Recycle Bin
All Site Content

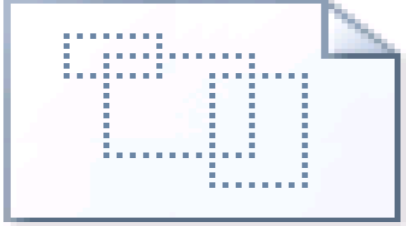
Type	Name	Modified	Modified By	Checked Out To	Compatible UI Version(s)	Approval Status	Contact	Hidden Page	Associated Content Type
Folder	Editing Menu	9/25/2009 9:13 AM	System Account			Approved			
Folder	en-us	9/25/2009 9:13 AM	System Account			Approved			
Folder	Preview Images	9/25/2009 9:13 AM	System Account			Approved			
Page Layout	ArticleLeft.aspx	9/25/2009 9:13 AM	System Account			Approved			Article Page
Page Layout	ArticleLinks.aspx	9/25/2009 9:13 AM	System Account			Approved			Article Page
Page Layout	ArticleRight.aspx	9/25/2009 9:13 AM	System Account			Approved			Article Page
Page Layout	BlankWebPartPage.aspx	9/25/2009 9:13 AM	System Account			Approved			Welcome Page
Page Layout	default.master	9/25/2009 9:12 AM	Administrator		3	Approved			
Page Layout	EnterpriseWiki.aspx	9/25/2009 9:13 AM	System Account			Approved			Enterprise Wiki Page
Page Layout	minimal.master	9/25/2009 9:12 AM	Administrator		4	Approved			
Page Layout	nightandday.master	9/25/2009 9:13 AM	System Account		4	Approved			
Page Layout	PageFromDocLayout.aspx	9/25/2009 9:13 AM	System Account			Approved			Article Page
Page Layout	PageLayoutTemplate.aspx	9/25/2009 9:13 AM	System Account		4	Approved		Yes	Project Page
Page Layout	ProjectPage.aspx	9/25/2009 9:13 AM	System Account			Approved			Redirect Page
Page Layout	RedirectPageLayout.aspx	9/25/2009 9:13 AM	System Account			Approved			
Page Layout	v4.master	9/25/2009 9:12 AM	Administrator		4	Approved			
Page Layout	VariationRootPageLayout.aspx	9/25/2009 9:13 AM	System Account			Approved		Yes	Redirect Page
Page Layout	WelcomeLinks.aspx	9/25/2009 9:13 AM	System Account		4	Approved			Welcome Page
Page Layout	WelcomeSplash.aspx	9/25/2009 9:13 AM	System Account			Approved			Welcome Page
Page Layout	WelcomeTOC.aspx	9/25/2009 9:13 AM	System Account			Approved			Welcome Page

Configuring Page Layouts

● Site settings - Page Layout and Site Template Settings

Page Layouts

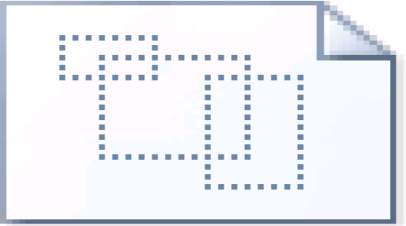
Specify the page layouts preferred for new pages in this site.



A basic page layout containing a single content area.

New Page Default Settings

Specify the default page layout and page URL to use when creating a new page. New pages will have a page URL name specified followed by a number. Setting the page title on the new page will change the page URL name when the page is first saved.



☐ Pages inherit preferred layouts from parent site

☐ Pages in this site can use any layout

☒ Pages in this site can only use the following layouts:

(Article Page) Body only
(Article Page) Image on left
(Article Page) Image on right
(Article Page) Summary links
(Welcome Page) Blank Web Part page
(Welcome Page) Splash
(Welcome Page) Summary links
(Welcome Page) Table of contents

Add >
< Remove

(Enterprise Wiki Page) Basic Page
(Project Page) Basic Project Page
(Redirect Page) Redirect

☐ Reset all subsites to inherit these preferred page layout settings

☐ Inherit default page layout from parent site

☒ Select the default page layout:

(Enterprise Wiki Page) Basic Page
(Project Page) Basic Project Page
(Redirect Page) Redirect

☐ Inherit new page URL from parent site

☒ Specify new page URL:

URL name:

☐ Reset all subsites to inherit these new page settings

Example customizations

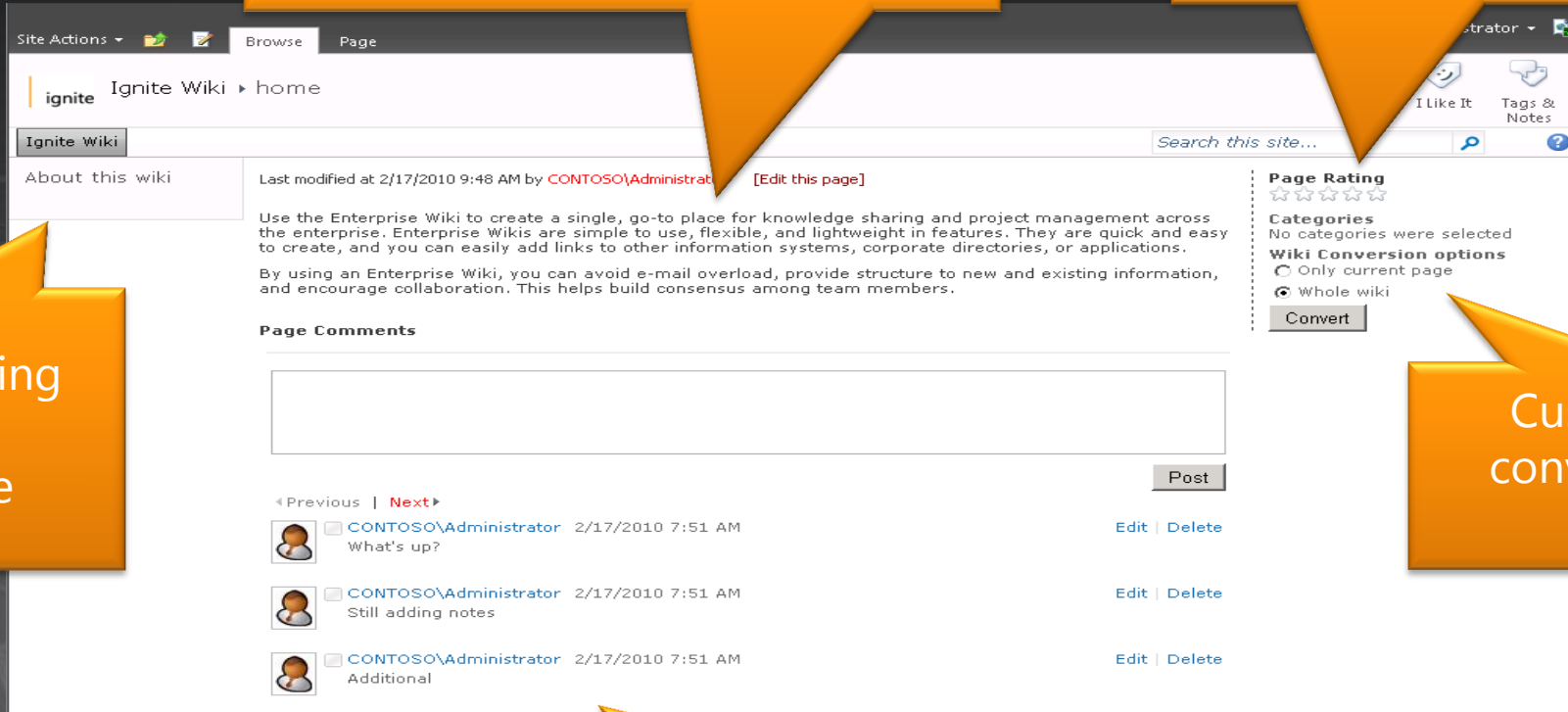
Actual wiki content using ribbon editing tools

OOB rating and categories

Layouts, branding and themes customizable

Custom control to convert wiki to docx format

OOB note board web part added to page layout



Activity Feeds

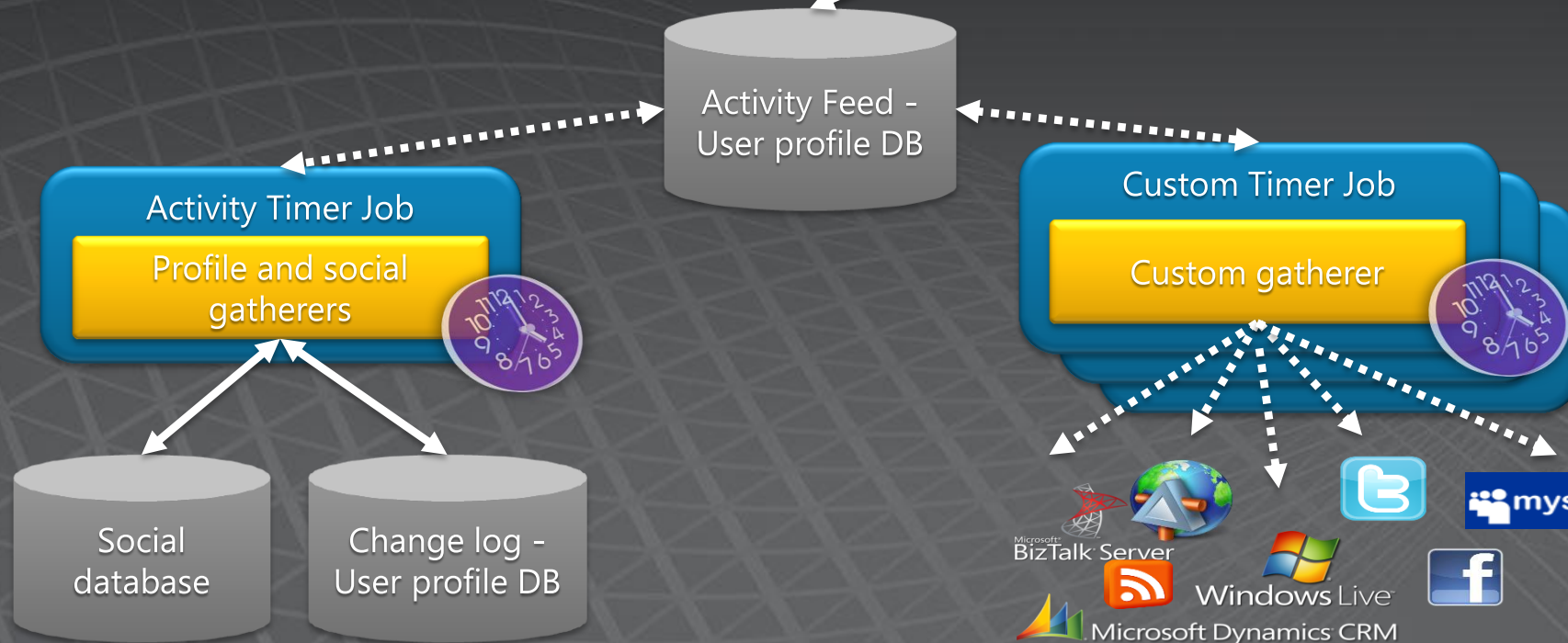
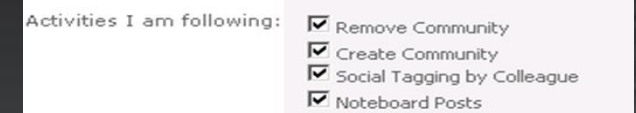
- Extensible Enterprise Activity Feed
 - Web part
 - Atom 2.0 feed
- Two types
 - Consolidated – activities from everything I track
 - http://<mysitehost>/_layouts/activityfeed.aspx?consolidated=true
 - Published – my activities
 - http://<mysitehost>/_layouts/activityfeed.aspx?publisher=<accountname>
- Architecture
- Extensibility

Activity feed architecture

User actions in Sharepoint or any other application can be collected to activity feeds and published to colleagues



User feeds depends on interests defined in the profile page – Custom applications and types shown here as options



Custom gatherer has to have sufficient access rights to user profiles

Activity Feeds

What's New

My Colleagues



Dan Jump left a note on Dan Jump 2/19/2010

I'm really excited of the new product line which we released yesterday. We gained a lot of publicity and customers have already indicated a lot of interest as well.



Dan Jump updated profile. 2/19/2010

Status Message: Excited of the new product line!

My Interests

Newsfeed Settings

Activities I am following:

- ☒ Remove Community
- ☒ Create Community
- ☒ Social Tagging by Colleague
- ☒ Noteboard Posts
- ☒ Social Tagging by Anyone
- ☒ Social Ratings
- ☒ Weblog Update
- ☒ Membership Change
- ☒ Sharing Interests
- ☒ Colleague Addition
- ☒ Title Change
- ☒ Manager Change
- ☒ Birthday Today
- ☒ Workplace Anniversary Reminder
- ☒ Workplace Anniversary Today
- ☒ Profile Property Change
- ☒ Birthday Reminder

Check or uncheck boxes to set types of activities you want to see for your colleagues.

Noteboard Posts

Wednesday, February 10, 2010, 12:03:30 PM | Administrator@contoso.com (Contoso Administrator) →

Contoso Administrator left a note on [Comment](#)
My custom asmx comment

Social Ratings

Tuesday, February 09, 2010, 8:20:07 AM | Administrator@contoso.com (Contoso Administrator) →

Contoso Administrator rated <http://intranet.contoso.com/SitePages/example.aspx> as 4 of 5

Social Ratings

Tuesday, February 09, 2010, 7:56:11 AM | Administrator@contoso.com (Contoso Administrator) →

Contoso Administrator rated <http://intranet.contoso.com/SitePages/How To Use This Wiki Library.aspx> as 3 of 5

Social Ratings

Tuesday, February 09, 2010, 7:56:00 AM | Administrator@contoso.com (Contoso Administrator) →

Contoso Administrator rated <http://intranet.contoso.com/SitePages/example.aspx> as 1 of 5



Tag Cloud Customization

- Tag cloud web part can be customized by inheriting it
 - Microsoft.SharePoint.Portal.WebControls.
TagCloudWebPart
- You can define the actual tag information to be shown based on your requirements
- Provides flexibility on tag information to be shown

Social Code Managers

- New managers available for easy extending of the social functionalities
 - SocialCommentManager
 - SocialRatingManager
 - SocialTagManager
- Located in Microsoft.Office.Server.SocialData namespace
- You can easily use the APIs to for example create custom rating controls etc.

User profile service

- Provides a interface for remote clients to read, manipulate and create user profiles
- Location
 - http://<server>/_vti_bin/UserProfileService.asmx
- Example usage
 - Manage colleagues based on association in Facebook or in LinkedIn
 - Update profile properties based on extranal application

Calling user profile service

```
private void button3_Click(object sender, RoutedEventArgs e)
{
    //Set the end point information
    BasicHttpBinding bind = new BasicHttpBinding();
    EndpointAddress endpoint =
        new EndpointAddress("http://intranet.contoso.com/ vti bin/userprofileservice.asmx");
    UserProfileService.UserProfileServiceSoapClient upaClnt =
        new UserProfileService.UserProfileServiceSoapClient(bind, endpoint);

    //Associate event handler and execute the call async
    upaClnt.GetUserColleaguesCompleted +=
        new EventHandler<UserProfileService.GetUserColleaguesCompletedEventArgs>
            (upaClnt_GetUserColleaguesCompleted);
    upaClnt.GetUserColleaguesAsync("Contoso\\Administrator");
}

void upaClnt_GetUserColleaguesCompleted(object sender,
    UserProfileService.GetUserColleaguesCompletedEventArgs e)
{
    //Called async when done
    foreach (UserProfileService.ContactData item in e.Result)
    {
        //Do whatever you like
    }
}
```

Social data service

- Provide methods to create and manipulate social elements
 - Notes, tags and ratings
- Location
 - http://Site/_vti_bin/SocialDataService.asmx
- Example usage
 - Generate comment information remotely from office clients to particular document

User profile change service

- Get information concerning user profile changes
- Location
 - http://Site/_vti_bin/UserProfileChangeService.aspx
- Example
 - Update external systems based on profile information updates in SharePoint

User Profile Change

```
private void button2_Click(object sender, RoutedEventArgs e)
{
    BasicHttpBinding bind = new BasicHttpBinding();
    EndpointAddress endpoint =
        new EndpointAddress("http://intranet.contoso.com/ vti bin/UserProfileChangeService.asmx");
    UPChangeService.UserProfileChangeServiceSoapClient UPCSCClient =
        new UPChangeService.UserProfileChangeServiceSoapClient(bind, endpoint);

    UPCSCClient.GetUserAllChangesCompleted += new EventHandler<
        UPChangeService.GetUserAllChangesCompletedEventArgs>(UPCSCClient_GetUserAllChangesCompleted);
    UPCSCClient.GetUserAllChangesAsync("Contoso\\administrator");
}

void UPCSCClient_GetUserAllChangesCompleted(object sender,
        UPChangeService.GetUserAllChangesCompletedEventArgs e)
{
    foreach (UPChangeService.UserProfileChangeData item in e.Result.Changes)
    {
        //What ever you like
    }
}
```